

Flood Control Project Maintenance
2008 Structure Summary Report
Overall Unit and Item Ratings

DWR Sutter Maintenance Yard

Butte Slough Drainage Structure

Overall Unit Rating	Rated Item	Item Rating
M	Vegetation & Obstructions	M

Butte Slough Outfall Structure

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A

Colusa Weir

Overall Unit Rating	Rated Item	Item Rating
A	No Items	A

Little Chico Creek Control And Weir Structures

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Concrete Foundations	A

Middle Creek Pumping Plant

Overall Unit Rating	Rated Item	Item Rating
M	Operating Log	U
	Operation & Maintenance Manual	U
	Plant Building	M
	Communications	A
	Safety	A
	Cranes	A
	Pumps	M
	Power	A
	Motors, Engines, Fans & Gear Reducers	M
	Pump Control Systems	M
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	A
	Security Fencing	M
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

Moulton Weir

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Concrete Foundations	A

Flood Control Project Maintenance
2008 Structure Summary Report
Overall Unit and Item Ratings

DWR Sutter Maintenance Yard (cont.)

Nelson Bend

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Encroachments	A
	Revetments	A

Sutter Bypass Pumping Plant No. 1

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	M
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	A
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

Flood Control Project Maintenance
2008 Structure Summary Report
Overall Unit and Item Ratings

DWR Sutter Maintenance Yard (cont.)

Sutter Bypass Pumping Plant No. 2

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	U
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	M
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	A
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

Sutter Bypass Pumping Plant No. 3

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	M
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	A
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

Flood Control Project Maintenance
2008 Structure Summary Report
Overall Unit and Item Ratings

DWR Sutter Maintenance Yard (cont.)

Sutter Bypass Weir No. 2

Overall Unit Rating	Rated Item	Item Rating
A	Concrete Foundations	A

Tisdale Weir

Overall Unit Rating	Rated Item	Item Rating
A	Concrete Foundations	A

Wadsworth Canal Weir No. 4

Overall Unit Rating	Rated Item	Item Rating
A	Concrete Foundations	A

Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Butte Slough Drainage Structure

Date of Inspection	9/16/2008
DWR Inspector	Bob Duffey
Structure Rating	M

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Butte Slough Drainage Structure	09/16/2008	Bob Duffey

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Structures & Concrete Lined Channels	Vegetation & Obstructions		A		39.197160 ° 121.943730 °	Y	1
2	Structures & Concrete Lined Channels	Vegetation & Obstructions		M		39.197010 ° 121.943650 °	Y	2

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Butte Slough Drainage Structure	09/16/2008	Bob Duffey

Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

Corrugated metal stand pipe protects the inlet.



Report Line	2
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

View of the dense vegetation at the outlet pipe.



*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Butte Slough Outfall Structure

Date of Inspection	9/16/2008
DWR Inspector	Bob Duffey
Structure Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Butte Slough Outfall Structure	09/16/2008	Bob Duffey

Rpt Line	Category	Item	* Location	** Rating	Comment	GPS	Photo	Issue
1	Structures & Concrete Lined Channels	Vegetation & Obstructions		A		39.195410 ° 121.936290 °	Y	1
2	Structures & Concrete Lined Channels	Vegetation & Obstructions		A		39.195030 ° 121.936490 °	Y	2

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Butte Slough Outfall Structure	09/16/2008	Bob Duffey

Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

The intake side of the Structure



Report Line	2
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

View of the outlet channel and gauge house



*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Colusa Weir

Date of Inspection	9/16/2008
DWR Inspector	Bob Duffey
Structure Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Colusa Weir	09/16/2008	Bob Duffey

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1								° °

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Little Chico Creek Control And Weir Structures

Date of Inspection	9/16/2008
DWR Inspector	Bob Duffey
Structure Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Little Chico Creek Control And Weir Structures	09/16/2008	Bob Duffey

Rpt Line	Category	Item	* Location	** Rating	Comment	GPS	Photo	Issue
1	Structures & Concrete Lined Channels	Vegetation & Obstructions		A		39.733890 ° 121.771940 °	Y	1
2	Structures & Concrete Lined Channels	Concrete Foundations		A		39.733890 ° 121.771940 °	Y	2

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Little Chico Creek Control And Weir Structures	09/16/2008	Bob Duffey

Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

View of the downstream side of the control structure.



Report Line	2
Location	
Category	Structures & Concrete Lined Channels
Item	Concrete Foundations

View of the vegetation downstream from the structure.



*** Location**

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**** Rating**

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Flood Control Project Maintenance

Unit Cover Sheet

2008 Pumping Plant Inspection Results

DWR Sutter Maintenance Yard

Pumping Plant
Middle Creek Pumping Plant

Date of Inspection	12/18/2008
DWR Inspector	Hana Babbin
Pumping Plant Rating	M

Flood Control Project Maintenance

Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure				Inspection Date	Inspector
Middle Creek Pumping Plant				12/18/2008	Hana Babbins

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Pump Stations	Operating Log		U	This station is under review for abandonment. Basic maintenance is performed but the records are not kept on-site.			1
2	Pump Stations	Operation & Maintenance Manual		U				2
3	Pump Stations	Plant Building		M	The surge chamber has settled 12" since 1962 and has a side displacement of 9.5".		Y	3
4	Pump Stations	Communications		A	When the operator travels to the site a mobile phone is carried.			4
5	Pump Stations	Safety		A				5
6	Pump Stations	Cranes		N				6
7	Pump Stations	Pumps		M	Item inspected visually only. Item was not operated during the inspection.		Y	7
8	Pump Stations	Power		A	Back up power is not on site. Item inspected visually only. Item was not operated during the inspection.			8
9	Pump Stations	Motors, Engines, Fans & Gear Reducers		M	Item inspected visually only. Item was not operated during the inspection.			9
10	Pump Stations	Pump Control Systems		M	The control system is housed but no environmental control is present. As such, condensation can accumulate. Item inspected visually only. Item was not operated during the inspection.		Y	10
11	Pump Stations	Sumps/Wet Well		A			Y	11
12	Pump Stations	Trash Racks		A			Y	12
13	Pump Stations	Trash Rakes		N				13
14	Pump Stations	Sluice / Slide Gates		N	Gates could not be inspected. They are positioned such that they can become submerged due to seasonal water fluctuations.			14
15	Pump Stations	Electric Gate Operators		N				15
16	Pump Stations	Manual Gate Operators		N				16

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Middle Creek Pumping Plant	12/18/2008	Hana Babbin

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
17	Pump Stations	Other Metallic Items		A			°	Y 17
18	Pump Stations	Flap Gates		N			°	18
19	Pump Stations	Closure Structures		N			°	19
20	Pump Stations	Security Fencing		M	Site is subject to vandalism due to remote location.		°	Y 20
21	Pump Stations	Intake and Discharge Pipes		A			°	Y 21
22	Pump Stations	Pressurized Pipe		A			°	22

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Middle Creek Pumping Plant	12/18/2008	Hana Babbitt

Report Line	3
Location	
Category	Pump Stations
Item	Plant Building
Image shows the side displacement of the surge chamber.	



Report Line	3
Location	
Category	Pump Stations
Item	Plant Building
View of the concrete building. No major cracking or other indicators of structural distress are present.	



Report Line	7
Location	
Category	Pump Stations
Item	Pumps
View of pumps.	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected	C : Corrected
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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Middle Creek Pumping Plant	12/18/2008	Hana Babbins

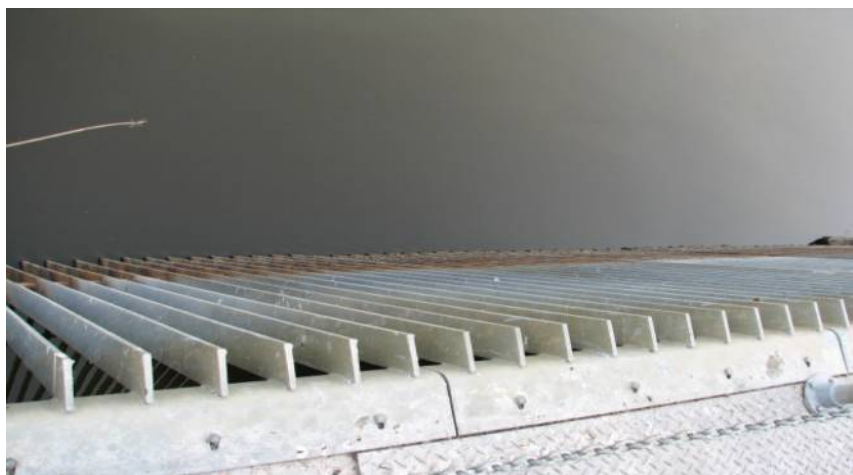
Report Line	10
Location	
Category	Pump Stations
Item	Pump Control Systems
Pump control system is functional and secured.	



Report Line	11
Location	
Category	Pump Stations
Item	Sumps/Wet Well
View into the wet well area, which is kept clear of debris.	



Report Line	12
Location	
Category	Pump Stations
Item	Trash Racks
Trash racks are clear and function properly.	



* Location	** Rating		
LS : Land Side	A : Acceptable	PO : Partially Obstructing	C : Corrected
WS : Water Side	M : Minimally Acceptable	CO : Completely Obstructing	
CR : Crown	U : Unacceptable	N : Not Inspected	

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Middle Creek Pumping Plant	12/18/2008	Hana Babbitt

Report Line	17
Location	
Category	Pump Stations
Item	Other Metallic Items

Metallic items are free of corrosion.



Report Line	20
Location	
Category	Pump Stations
Item	Security Fencing

Security fencing is minimal.



Report Line	21
Location	
Category	Pump Stations
Item	Intake and Discharge Pipes

Pipes have some minor corrosion.



*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable

PO : Partially Obstructing
 CO : Completely Obstructing
 N : Not Inspected

C : Corrected

Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Moulton Weir

Date of Inspection	9/16/2008
DWR Inspector	Bob Duffey
Structure Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Moulton Weir	09/16/2008	Bob Duffey

Rpt Line	Category	Item	* Location	** Rating	Comment	GPS	Photo	Issue
1	Structures & Concrete Lined Channels	Vegetation & Obstructions		A		39.232100 ° 121.996120 °	Y	3
2	Structures & Concrete Lined Channels	Vegetation & Obstructions		A		39.236890 ° 121.994680 °	Y	4
3	Structures & Concrete Lined Channels	Vegetation & Obstructions		A		39.338300 ° 122.022130 °	Y	2
4	Structures & Concrete Lined Channels	Concrete Foundations		A		39.338300 ° 122.022130 °	Y	1

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Moulton Weir	09/16/2008	Bob Duffey

Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

The upstream side of weir from the south levee



Report Line	2
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

View of the gauging house, Sacramento River in the background



Report Line	3
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

View of the gauging house directly upstream of weir



*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable

PO : Partially Obstructing
 CO : Completely Obstructing
 N : Not Inspected

C : Corrected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Moulton Weir	09/16/2008	Bob Duffey

Report Line	4
Location	
Category	Structures & Concrete Lined Channels
Item	Concrete Foundations

The weir and stilling basin from the top of the south abutment



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Nelson Bend

Date of Inspection	7/21/2008
DWR Inspector	John Williamson
Structure Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Nelson Bend	07/21/2008	John Williamson

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Structures & Concrete Lined Channels	Vegetation & Obstructions		A	vegetation is heavy around structure needs mowing on the front side, Sutter maintenance yard has sprayed large brush in structure and cleared brush as you travel to the south side the brush gets thicker needs more spraying.	°	Y	1
2	Structures & Concrete Lined Channels	Encroachments		A	no debris in are around the structure fallen trees are in revetment	°		2
3	Structures & Concrete Lined Channels	Revetments		A	revetment appears to be in good condition some clearing can be done, all down vegetation and trees will wash way in high water.	°		3

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Nelson Bend	07/21/2008	John Williamson

Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

View of Rock Quarry Weir from northeast end
GPS 38.89547 -121.61687



Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

View of rip rap southwest end



Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Vegetation & Obstructions

view of Rock Quarry Weir southwest end GPS
38.88740 -121. 61541



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected
C : Corrected

Flood Control Project Maintenance

Unit Cover Sheet

2008 Pumping Plant Inspection Results

DWR Sutter Maintenance Yard

Pumping Plant
Sutter Bypass Pumping Plant No. 1

Date of Inspection	12/9/2008
DWR Inspector	Hana Babbin
Pumping Plant Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure						Inspection Date	Inspector	
Sutter Bypass Pumping Plant No. 1						12/09/2008	Hana Babbins	
Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Pump Stations	Operating Log		A				1
2	Pump Stations	Operation & Maintenance Manual		A				2
3	Pump Stations	Plant Building		A				3
4	Pump Stations	Communications		A				4
5	Pump Stations	Safety		A	Vandalism is a problem for this station.			5
6	Pump Stations	Cranes		N				6
7	Pump Stations	Pumps		A	All pumps have been newly rebuilt. Item inspected visually only. Item was not operated during the inspection.			7
8	Pump Stations	Power		A	No back-up generators on site. Past power outages during storms have resulted in days with no pumping. DOE has identified the need for back-up generators. Item inspected visually only. Item was not operated during the inspection.			8
9	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection.			9
10	Pump Stations	Pump Control Systems		M	The electrical control system is outdated. Parts are no longer available. DOE has identified the need to completely upgrade the system. Goal is 2010 for upgrades. Item inspected visually only. Item was not operated during the inspection.			10
11	Pump Stations	Sumps/Wet Well		A				11
12	Pump Stations	Trash Racks		A				12
13	Pump Stations	Trash Rakes		N				13
14	Pump Stations	Sluice / Slide Gates		N	Slide gates are used at the discharge side and are typically left open.			14
15	Pump Stations	Electric Gate Operators		N				15

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure				Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 1				12/09/2008	Hana Babbin

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
16	Pump Stations	Manual Gate Operators		A			°	Y 16
17	Pump Stations	Other Metallic Items		A			°	17
18	Pump Stations	Flap Gates		A	The hinges and pins are regularly tested and lubed. Item inspected visually only. Item was not operated during the inspection.		°	18
19	Pump Stations	Closure Structures		N			°	19
20	Pump Stations	Security Fencing		A			°	Y 20
21	Pump Stations	Intake and Discharge Pipes		A	Intakes are free of corrosion. Discharge pipes are not visible. Item inspected visually only. Item was not operated during the inspection.		°	21
22	Pump Stations	Pressurized Pipe		N			°	22

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 1	12/09/2008	Hana Babbin

Report Line	2
Location	
Category	Pump Stations
Item	Operation & Maintenance Manual
Operations and maintenance logs are present and records are kept.	



Report Line	3
Location	
Category	Pump Stations
Item	Plant Building
View of plant building. No visible cracking or signs of structural damage are present.	



Report Line	7
Location	
Category	Pump Stations
Item	Pumps
View of one of the pumps. Appear well maintained.	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected	C : Corrected
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Flood Control Project Maintenance

Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 1	12/09/2008	Hana Babbin

Report Line	8
Location	
Category	Pump Stations
Item	Power
Secured power supply.	



Report Line	10
Location	
Category	Pump Stations
Item	Pump Control Systems
View of the out-dated electrical system for the pump control. It is functional and housed in a climate controlled shed.	



Report Line	16
Location	
Category	Pump Stations
Item	Manual Gate Operators
View of manual gate control apparatus. It is free of rust and gates are opened or closed by attaching a socket.	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected	C : Corrected
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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 1	12/09/2008	Hana Babbins

Report Line	20
Location	
Category	Pump Stations
Item	Security Fencing

View of security fencing attached to the top of all enclosing walls.



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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Flood Control Project Maintenance

Unit Cover Sheet

2008 Pumping Plant Inspection Results

DWR Sutter Maintenance Yard

Pumping Plant
Sutter Bypass Pumping Plant No. 2

Date of Inspection	12/10/2008
DWR Inspector	Hana Babbitt
Pumping Plant Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 2	12/10/2008	Hana Babbins

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Pump Stations	Operating Log		A	Operations log is on site and used regularly to document.			1
2	Pump Stations	Operation & Maintenance Manual		A				2
3	Pump Stations	Plant Building		A			Y	3
4	Pump Stations	Communications		A				4
5	Pump Stations	Safety		A	This plant is susceptible to vandalism.			5
6	Pump Stations	Cranes		N				6
7	Pump Stations	Pumps		U	Pump #3 will not start and is in diagnostics with HEP. All pumps were rebuilt in 2006 and 2007. Item inspected visually only. Item was not operated during the inspection.		Y	7
8	Pump Stations	Power		A	No back up power is available. Item inspected visually only. Item was not operated during the inspection.		Y	8
9	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection.			9
10	Pump Stations	Pump Control Systems		M	The electrical control system is out dated and the need for an upgrade has been identified by DOE. Item inspected visually only. Item was not operated during the inspection.			10
11	Pump Stations	Sumps/Wet Well		A			Y	11
12	Pump Stations	Trash Racks		A			Y	12
13	Pump Stations	Trash Rakes		N				13
14	Pump Stations	Sluice / Slide Gates		N	Slide gates are used on the discharge side of the plant.			14
15	Pump Stations	Electric Gate Operators		N				15
16	Pump Stations	Manual Gate Operators		A	Item inspected visually only. Item was not operated during the inspection.		Y	16

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 PO : Partially Obstructing
 CO : Completely Obstructing
 N : Not Inspected
 C : Corrected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 2	12/10/2008	Hana Babbin

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
17	Pump Stations	Other Metallic Items		A				17
18	Pump Stations	Flap Gates		A	Item inspected visually only. Item was not operated during the inspection.		Y	18
19	Pump Stations	Closure Structures		N				19
20	Pump Stations	Security Fencing		A	Fencing is attached to the top of all walls to enhance security.		Y	20
21	Pump Stations	Intake and Discharge Pipes		A	discharge pipes cannot be seen.		Y	21
22	Pump Stations	Pressurized Pipe		N				22

*** Location**

LS : Land Side
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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 2	12/10/2008	Hana Babbin

Report Line	3
Location	
Category	Pump Stations
Item	Plant Building

View of plant building. No cracking or signs of structural hazards are visible.



Report Line	7
Location	
Category	Pump Stations
Item	Pumps

View of the pumps. There are 6 pumps but the third is currently not operational.



Report Line	8
Location	
Category	Pump Stations
Item	Power

Power source is secured and reliable provided no outages occur.



*** Location**

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Flood Control Project Maintenance

Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 2	12/10/2008	Hana Babbin

Report Line	11
Location	
Category	Pump Stations
Item	Sumps/Wet Well

Wet wells are kept clear of debris.



Report Line	12
Location	
Category	Pump Stations
Item	Trash Racks

Trash racks are clear and functional.



Report Line	16
Location	
Category	Pump Stations
Item	Manual Gate Operators

Discharge side manually operated slide gate wells. Erosion/caving issue was noted last year and no action has been taken.



* Location

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 2	12/10/2008	Hana Babbitt

Report Line	16
Location	
Category	Pump Stations
Item	Manual Gate Operators

Another view of the erosion condition.



Report Line	16
Location	
Category	Pump Stations
Item	Manual Gate Operators

A view of similar caving on the other side of the discharge gate well platform.



Report Line	18
Location	
Category	Pump Stations
Item	Flap Gates

Flap gates. Pins are free of corrosion and maintained regularly.



*** Location**

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 2	12/10/2008	Hana Babbin

Report Line	20
Location	
Category	Pump Stations
Item	Security Fencing

Typical view of fencing attached to the top of all surrounding walls.



Report Line	21
Location	
Category	Pump Stations
Item	Intake and Discharge Pipes

View of an intake pipe in the wet well area. Vandalism is a problem here. The patches of epoxy were applied over damages caused by bullets. Shotgun shells litter the ground in front of the intake area.



Report Line	21
Location	
Category	Pump Stations
Item	Intake and Discharge Pipes

Intake pipe in good condition. Epoxy coating is fairly new.



*** Location**

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Flood Control Project Maintenance

Unit Cover Sheet

2008 Pumping Plant Inspection Results

DWR Sutter Maintenance Yard

Pumping Plant
Sutter Bypass Pumping Plant No. 3

Date of Inspection	12/11/2008
DWR Inspector	Hana Babbins
Pumping Plant Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure				Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 3				12/11/2008	Hana Babbins

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Pump Stations	Operating Log		A			° Y	1
2	Pump Stations	Operation & Maintenance Manual		A			°	2
3	Pump Stations	Plant Building		A			°	3
4	Pump Stations	Communications		A			°	4
5	Pump Stations	Safety		A	This pump plant is subject to vandalism.		°	5
6	Pump Stations	Cranes		N			°	6
7	Pump Stations	Pumps		A	All pumps were recently rebuilt in 2006 and 2007. Item inspected visually only. Item was not operated during the inspection.		° Y	7
8	Pump Stations	Power		A	No back up generators exist. DOE has identified the need for back up power and a plan is in place for 2010.		°	8
9	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection.		°	9
10	Pump Stations	Pump Control Systems		M	Electrical system is outdated and has been scheduled for a complete upgrade by 2010.		°	10
11	Pump Stations	Sumps/Wet Well		A			°	11
12	Pump Stations	Trash Racks		A			° Y	12
13	Pump Stations	Trash Rakes		N			°	13
14	Pump Stations	Sluice / Slide Gates		N	Slide gates are used at the outlet side and are manually operated. Slide gates are typically left open. Item inspected visually only. Item was not operated during the inspection.		°	14
15	Pump Stations	Electric Gate Operators		N			°	15
16	Pump Stations	Manual Gate Operators		A	Item inspected visually only. Item was not operated during the inspection.		° Y	16

*** Location**

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 3	12/11/2008	Hana Babbin

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
17	Pump Stations	Other Metallic Items		A				17
18	Pump Stations	Flap Gates		A	Item inspected visually only. Item was not operated during the inspection.		Y	18
19	Pump Stations	Closure Structures		N				19
20	Pump Stations	Security Fencing		A			Y	20
21	Pump Stations	Intake and Discharge Pipes		A	Intake pipes can be seen at the wet wells but the discharge pipes cannot be seen.			21
22	Pump Stations	Pressurized Pipe		N				22

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 3	12/11/2008	Hana Babbins

Report Line	1
Location	
Category	Pump Stations
Item	Operating Log

Operating log is kept on site.



Report Line	7
Location	
Category	Pump Stations
Item	Pumps

View of the pumps. All four are operational and newly rebuilt in 2006 and 2007.



Report Line	12
Location	
Category	Pump Stations
Item	Trash Racks

Trash racks are kept clear of debris and function well.



*** Location**

LS : Land Side
 WS : Water Side
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**** Rating**

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 3	12/11/2008	Hana Babbins

Report Line	16
Location	
Category	Pump Stations
Item	Manual Gate Operators

Manually operated slide gates are at the discharge side.



Report Line	18
Location	
Category	Pump Stations
Item	Flap Gates

Flap gates. Pins and hinges are free of corrosion and are lubricated and tested regularly.



Report Line	20
Location	
Category	Pump Stations
Item	Security Fencing

View of security fencing.



*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Pumping Plant No. 3	12/11/2008	Hana Babbins

Report Line	20
Location	
Category	Pump Stations
Item	Security Fencing

Another view of security fencing.



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Sutter Bypass Weir No. 2

Date of Inspection	9/16/2008
DWR Inspector	Bob Duffey
Structure Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Weir No. 2	09/16/2008	Bob Duffey

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Structures & Concrete Lined Channels	Concrete Foundations		A		39.102870 ° 121.758780 °	Y	2
2	Structures & Concrete Lined Channels	Concrete Foundations		A		39.102870 ° 121.758780 °	Y	1

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Sutter Bypass Weir No. 2	09/16/2008	Bob Duffey

Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Concrete Foundations

Downstream side of the structure.



Report Line	2
Location	
Category	Structures & Concrete Lined Channels
Item	Concrete Foundations

Upstream side of the structure.



*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Tisdale Weir

Date of Inspection	9/16/2008
DWR Inspector	Bob Duffey
Structure Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Tisdale Weir	09/16/2008	Bob Duffey

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Structures & Concrete Lined Channels	Concrete Foundations		A		39.023250 ° 121.820780 °	Y	1
2	Structures & Concrete Lined Channels	Concrete Foundations		A		39.023250 ° 121.820780 °	Y	2

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Tisdale Weir	09/16/2008	Bob Duffey

Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Concrete Foundations

Upstream side of the weir from the south end.



Report Line	2
Location	
Category	Structures & Concrete Lined Channels
Item	Concrete Foundations

Downstream side of the weir from the south end.
 New bridge & boat ramp is being built at this time.
 The old bridge will be removed in 2009.



*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

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 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance

Unit Cover Sheet

2008 Structure Inspection Results

DWR Sutter Maintenance Yard

Structure
Wadsworth Canal Weir No. 4

Date of Inspection	9/16/2008
DWR Inspector	Bob Duffey
Structure Rating	A

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Wadsworth Canal Weir No. 4	09/16/2008	Bob Duffey

Rpt Line	Category	Item	Location *	Rating **	Comment	GPS	Photo	Issue
1	Structures & Concrete Lined Channels	Concrete Foundations		A		39.153350 ° 121.734260 °	Y	2
2	Structures & Concrete Lined Channels	Concrete Foundations		A		39.153350 ° 121.734260 °	Y	1

*** Location**

LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
 M : Minimally Acceptable CO : Completely Obstructing
 U : Unacceptable N : Not Inspected

Flood Control Project Maintenance
Inspection Report - Structure 2008

DWR Sutter Maintenance Yard

Structure	Inspection Date	Inspector
Wadsworth Canal Weir No. 4	09/16/2008	Bob Duffey

Report Line	1
Location	
Category	Structures & Concrete Lined Channels
Item	Concrete Foundations

View of the downstream side of structure.



Report Line	2
Location	
Category	Structures & Concrete Lined Channels
Item	Concrete Foundations

Upstream side of structure from the left bank levee.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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